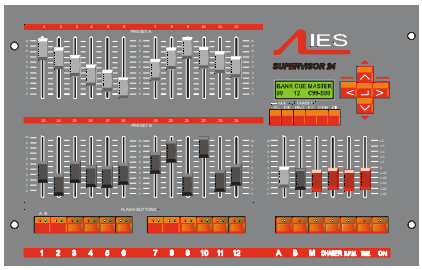
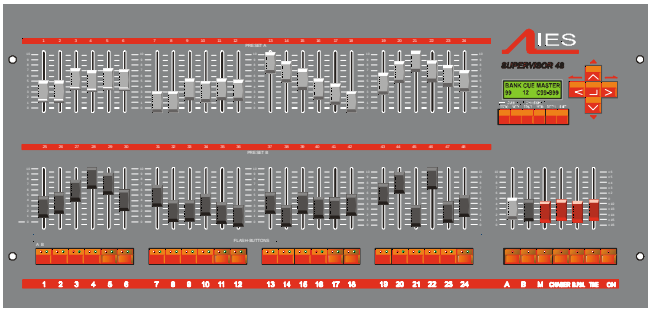
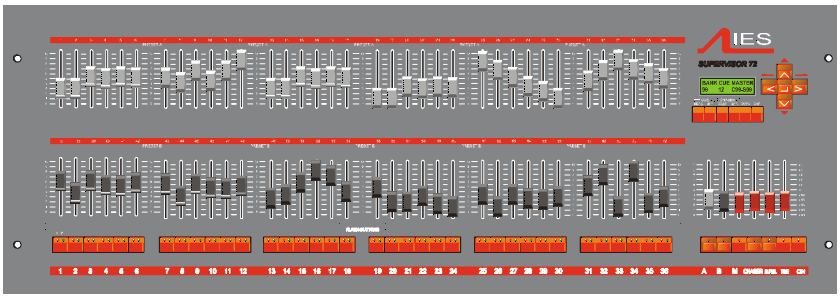
USER MANUAL
SUPERVISOR 24/48/72







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CAUTION!

To prevent fire or shock hazard, do not expose the unit In rain or moisture.
To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

WARRANTY

We warranty each of our products to be free from defects in material and workmanship.
Our obligation under this warranty is to repair or replace any instrument or part thereof which, within two years after shipment, proves defective upon examination.
External influences are excluded. To exercise this warranty, write or cal IES representative, or contact the IES service department. You will be given prompt assistance and if necessary shipping instructions.

INTRODUCTION :

Congratulations with the purchase of the **SUPERVISOR** light control desk.

Going through all of the functions will confirm that this has been the right choice,
and will be for at least the next ten years.
The flexible setup from the input device and internal network communication, as well as the enormous memory capacity does not enforce any hardware limitations therefore only the system software has to be upgraded by means of the monitor software to provide you with additional functions.

The supervisor was designed together with experienced TV / theater and rental users.
Each party contributed with their own specific problems and experience to the present functions.
Combining all this was the base for the way the Supervisor works,
Simply define your wishes in the set-up menu and it will be arranged.
In the future new ideas and functional improvements will be made and can easily be implemented in your desk as well.
The SUPERVISOR is equipped with three serial outputs. An RS-485 port for bi-directional communication with dimmers and other DMX-512 controllable devices and a RS-232 port to enable communication with an overhead system such as a personal computer.
The RS-485 output is prepared to handle more advanced protocols and speeds then DMX-512 without any problems.
The reason that the SUPERVISOR uses DMX-512 is that this is the only lighting protocol, which is worldwide adapted and accepted.
The real limitations using DMX-512 are found using indeed 512 channels and high resolutions for scanners as well as the absence of a checksum which makes it in fact a blind protocol.
But don't worry, for the moment it is a very big improvement against all the critical and complex wiring from conventional analog systems, and when the time is ready for a new standard the SUPERVISOR is prepared.
The MIDI in and output opens the possibilities for master/slave use and easy synchronization between different devices.

The manual will guide you through all functions step by step.
For all chapters is presumed that you have read the page called "turning on the supervisor" which explains a few essential steps before you should turn on the desk,
and how the input device with cursor and LCD display works.

Hopefully you will find much joy in working with the SUPERVISOR.

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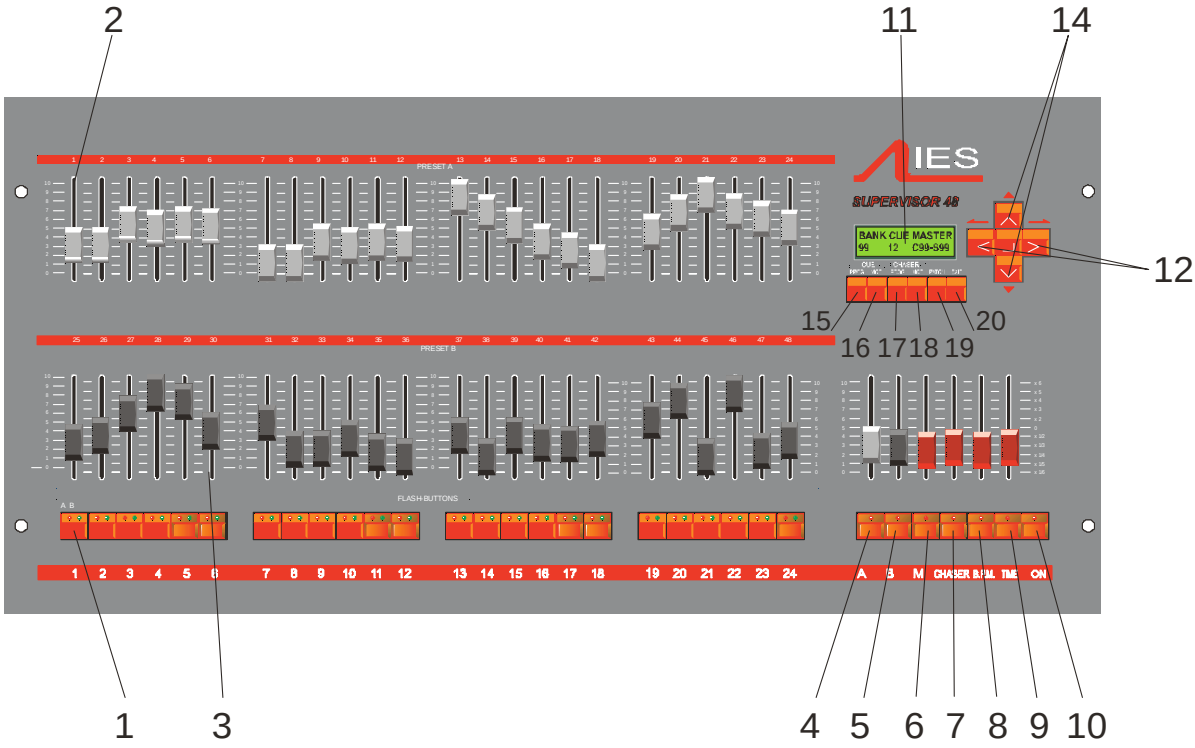
FUNCTION OVERVIEW :



fun-1 ⇒ Flash buttons to flash a channel a chaser or a cue. The red led shows the status of the upper channel, the green led from the lower channel.

fun-2 ⇒ This row of faders is used for PRESET-A and controls the first half of available channels.

fun-3 ⇒ This row of faders is used for PRESET-B in manual mode and in automatic mode are sub masters for the stored cues. Sub master 1 until 6 also can be selected to operate as chaser sub masters.

fun-4 ⇒ Master A controls the total level for preset A. The flash button beneath this fader is a master flash.

fun-5 ⇒ Master B controls the total level for preset B in manual mode, and for the sub masters in Automatic mode.

fun-6 ⇒ Grand master controls the total level for preset A as well as all the sub masters, except the chaser master. The flash button acts as a black out.

fun-7 ⇒ Chaser master controls the level of the main chaser. With the flash button the chaser function is enabled.

fun-8 ⇒ Beats Per Minute fader selects if you want to use the sound input. If on, the fader in the down position means every beat is a new step, in the top position it needs 10 beats to proceed one step. A special function is available by pressing the flash button over 5 seconds, the led is flashing and the fader has become a X fader to go from one cue to another.

fun-9 ⇒ The time fader is used to modify the programmed times in both cue's as well as chasers until a maximum of 6 times slower or faster. If the switch is pressed the chaser is blocked and with the cursor on the "step" position the up and down buttons are used to step forward or back in the chaser sequence.

fun-10 ⇒ ON button. Press once to switch on the Supervisor, and press over 3 seconds to switch off.

fun-11 ⇒ 2 x 20 character LCD screen with back light.

fun-12 ⇒ Left and right buttons to set the cursor on the desired position.

fun-13 ⇒ "ENTER' button, used to confirm different actions.

fun-14 ⇒ Up and down buttons to in- or decrease the by the cursor selected figure.

fun-15 ⇒ "PROG CUE" quick access button for cue programming.

fun-16 ⇒ "MOD CUE" button to quickly select the modify cue function.

fun-17 ⇒ "PROG CHASER" quick access to the program mode for chasers.

fun-18 ⇒ "MOD CHASER" button to quickly select the modify chaser function.

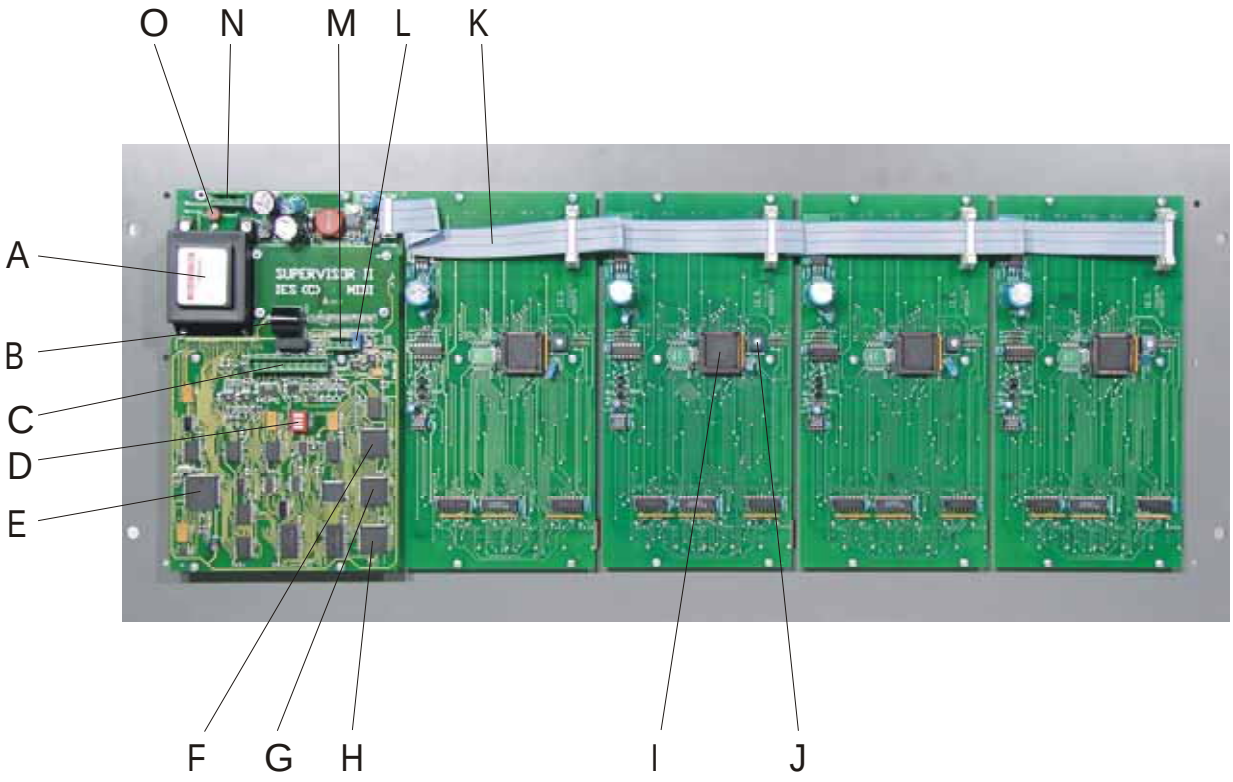
fun-19 ⇒ "PATCH" gives a direct access to the patch entry menu.

fun-20 ⇒ "EXIT" this function can be used at any point to return to the main menu.

SPECIFICATIONS :

	SUPERVISOR-24	SUPERVISOR-48	SUPERVISOR-72
Signal input	DMX-512 USITT	optical isolated RS485 / 250 kbaud	
MIDI output	with selectable channel and key address		
MIDI input	with selectable channel / flash button / function start address		
Master/slave	by means of MIDI out → in		
Channels (wide mode)	24	48	72
Soft patch channels	96 / 256 / 512	96 / 256 / 512	96 / 256 / 512
Data exchange (bi-directional)	RS232 9600b optical isolated (X-on / X-off)		
Power supply	150-250V AC	150-250V AC	150-250V AC
Frequency	50-60 Hz	50-60 Hz	50-60 Hz
Power consumption	14 VA max.	14 VA max.	14 VA max.
Top-set	30-100%	30-100%	30-100%
Bottom-set	0-30%	0-30%	0-30%
Pages	40	30	20
Cue's	6420	4680	2700
Chasers / sequences	60	40	20
Steps per chaser	99	99	99
Output curves	linear / square	linear / square	linear / square
User memory	1,0MB	1,0MB	1,0MB
System memory	512kb	512kb	512kb
Display	L.C.D. super twisted led backlight BATRON		
Audio input	0,775V – 50V auto ranging and optical isolated		
Fader module processor	78HC11 8Mhz / board		
Main processor	78HC11 8Mhz		
Password	one technical and one user password (4 digits)		
Manual mode	2 or 1 preset (wide) mode		
Output device (per 6ch)	selectable for scanner or real (proportional) level		
Flash function (per 6ch)	add-solo-channel		
Serial protocol	n.c. / Monitor / P.C. edit program		
Master B	normal / inverse		
GO button	by means of the sound input or "step up" button		
X-fade	by means of the B.P.M. fader (press the B.P.M button for 5 sec.)		
Step time	0-99,9 sec		
Pause time	0-99,9 sec		
Size (wxhxd)	482,5 x 266 x 95 mm	708 x 308 x 95 mm	958 x 308 x 95 mm
Weight	4,6 Kg	5,4 Kg	7,3Kg
Order code	9801 S	9802 S	9803 S
Metal built-in console	included	included	included
Monitor/up-down load software	included	included	included
Desktop console	9801 W	9802 W	9803 W

INTERNAL CONNECTIONS :



A : Mains power supply 230 50-60 Hz 2 x 15V 0,4 A.

B : Back-up battery witch guaranties a reliable back up for over 3 months.

C : Output connector for all external connections.

D : Dipswitch 4 clears the memory EPROM.

E : 78HC11 8Mhz / processor board.

F : MIDI controller 16C550.

G : INTERNAL communications controller 16C550.

H : DMX 512 controller 16C550.

I : Processor 78HC11 8Mhz / fader board.

J : Fader-board device address settings.

K : 16 pole flat-cable for communication distribution.

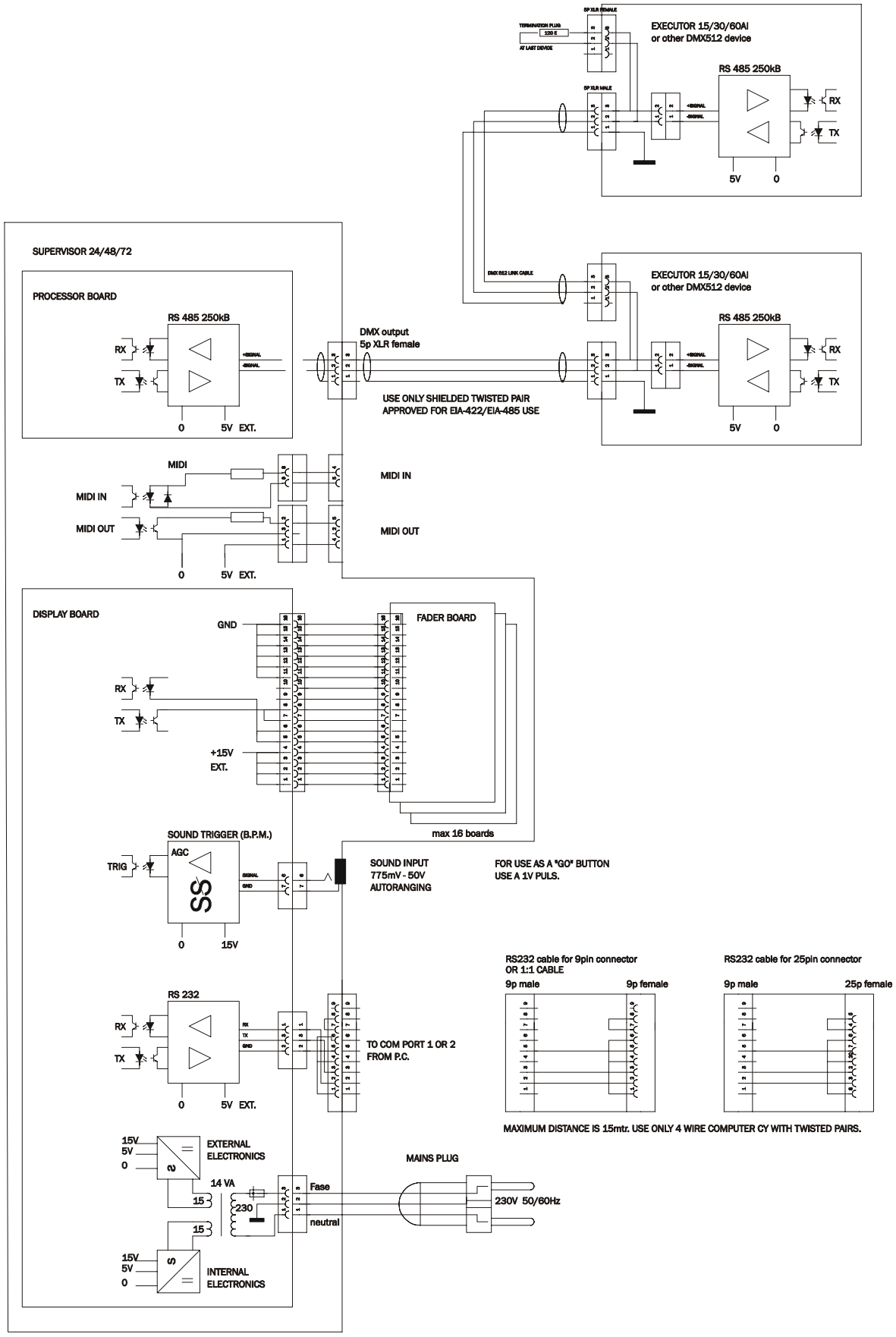
L : Pot for LCD contrast.

M : 3 Pole output connector for MIDI.

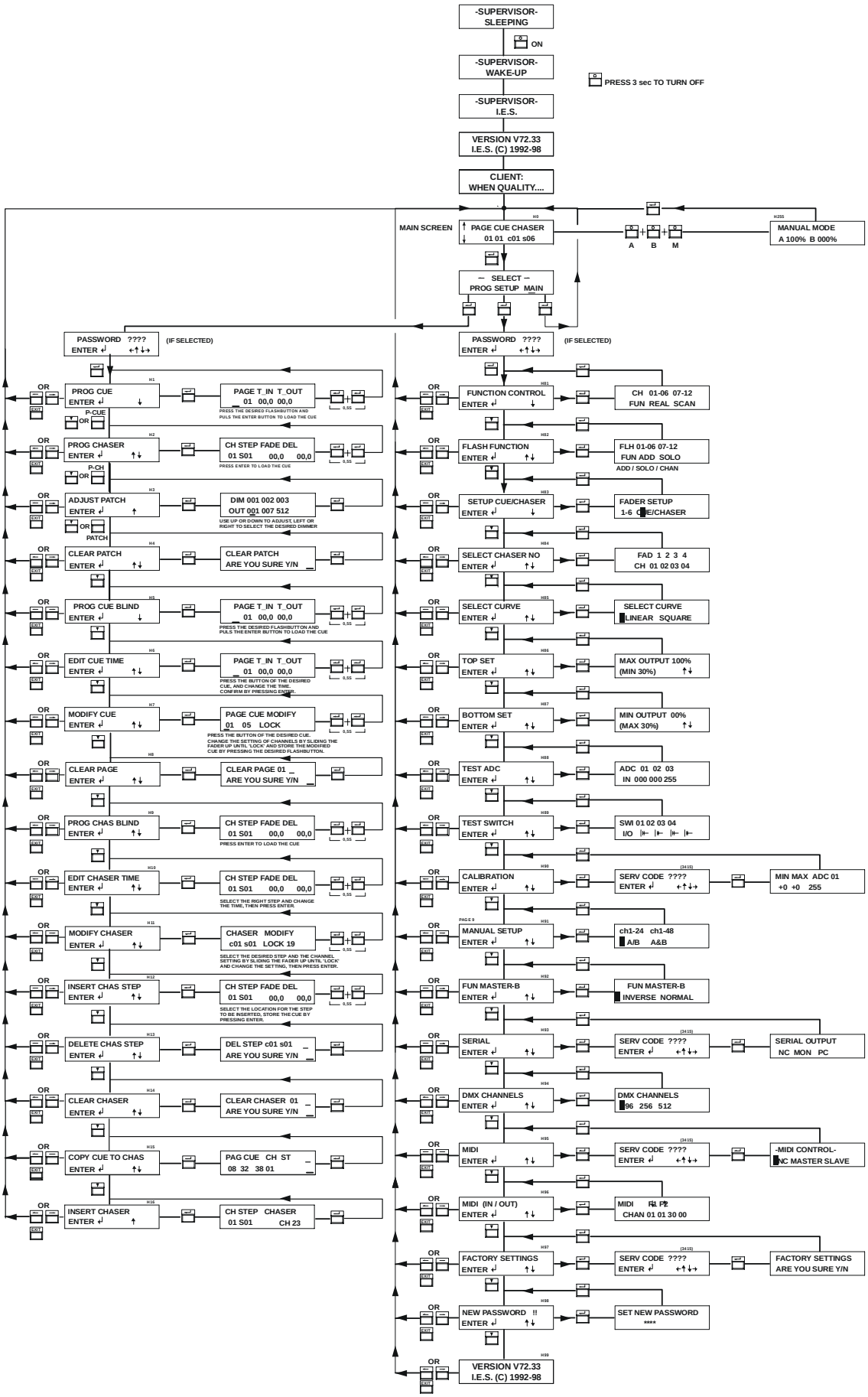
N : Mains power connector phase / GND / Neutral.

O : Automatic fuse 400 mAT

EXTERNAL CONNECTIONS :



MENU TREE :


-SUPERVISOR-
SLEEPING
ON
-SUPERVISOR-
WAKE-UP
PRESS 3 sec TO TURN OFF
-SUPERVISOR-
I.E.S.
VERSION V72.33
I.E.S. (C) 1992-98
CLIENT:
WHEN QUALITY....
MAIN SCREEN
PAGE CUE CHASER
01 01 c01 s06
A
B
M
MANUAL MODE
A 100% B 000%
– SELECT –
PROG SETUP MAIN
PASSWORD ????
ENTER
(IF SELECTED)
PROG CUE
ENTER
PAGE T_IN T_OUT
01 00,0 00,0
PRESS THE DESIRED FLASHBUTTON AND PULS THE ENTER BUTTON TO LOAD THE CUE
P-CUE
PROG CHASER
CH STEP FADE DEL
01 S01 00,0 00,0
PRESS ENTER TO LOAD THE CUE
P-CH
ADJUST PATCH
DIM 001 002 003
OUT 001 007 512
USE UP OR DOWN TO ADJUST, LEFT OR RIGHT TO SELECT THE DESIRED DIMMER
PATCH
CLEAR PATCH
CLEAR PATCH
ARE YOU SURE Y/N
PROG CUE BLIND
EDIT CUE TIME
PRESS THE BUTTON OF THE DESIRED CUE, AND CHANGE THE TIME. CONFIRM BY PRESSING ENTER.
MODIFY CUE
PAGE CUE MODIFY
01 05 LOCK
PRESS THE BUTTON OF THE DESIRED CUE. CHANGE THE SETTING OF CHANNELS BY SLIDING THE FADER UP UNTIL 'LOCK' AND STORE THE MODIFIED CUE BY PRESSING THE DESIRED FLASHBUTTON.
CLEAR PAGE
CLEAR PAGE 01
ARE YOU SURE Y/N
PROG CHAS BLIND
EDIT CHASER TIME
SELECT THE RIGHT STEP AND CHANGE THE TIME, THEN PRESS ENTER.
MODIFY CHASER
CHASER MODIFY
c01 s01 LOCK 19
SELECT THE DESIRED STEP AND THE CHANNEL SETTING BY SLIDING THE FADER UP UNTIL 'LOCK' AND CHANGE THE SETTING, THEN PRESS ENTER.
INSERT CHAS STEP
SELECT THE LOCATION FOR THE STEP TO BE INSERTED, STORE THE CUE BY PRESSING ENTER.
DELETE CHAS STEP
DEL STEP c01 s01
ARE YOU SURE Y/N
CLEAR CHASER
CLEAR CHASER 01
ARE YOU SURE Y/N
COPY CUE TO CHAS
PAG CUE CH ST
08 32 38 01
INSERT CHASER
CH STEP CHASER
01 S01 CH 23
FUNCTION CONTROL
CH 01-06 07-12
FUN REAL SCAN
FLASH FUNCTION
FLH 01-06 07-12
FUN ADD SOLO
ADD / SOLO / CHAN
SETUP CUE/CHASER
FADER SETUP
1-6 CUE/CHASER
SELECT CHASER NO
FAD 1 2 3 4
CH 01 02 03 04
SELECT CURVE
SELECT CURVE
LINEAR SQUARE
TOP SET
MAX OUTPUT 100%
(MIN 30%)
BOTTOM SET
MIN OUTPUT 00%
(MAX 30%)
TEST ADC
ADC 01 02 03
IN 000 000 255
TEST SWITCH
SWI 01 02 03 04
I/O
CALIBRATION
SERV CODE ????
MIN MAX ADC 01
+0 +0 255
MANUAL SETUP
ch1-24 ch1-48
A/B A&B
FUN MASTER-B
FUN MASTER-B
INVERSE NORMAL
SERIAL
SERIAL OUTPUT
NC MON PC
DMX CHANNELS
DMX CHANNELS
96 256 512
MIDI
-MIDI CONTROL-
NC MASTER SLAVE
MIDI (IN / OUT)
MIDI
CHAN 01 01 30 00
FACTORY SETTINGS
FACTORY SETTINGS
ARE YOU SURE Y/N
NEW PASSWORD !!
SET NEW PASSWORD
****
VERSION V72.33
I.E.S. (C) 1992-98

TURNING ON THE SUPERVISOR :

Before the Supervisor is plugged into the mains, first check the supply voltage / frequency and earth connection. Connect the power plug into the mains socket,
The led' s from the flash buttons are on until the internal communication is checked,
The display now shows "SUPERVISOR SLEEPING".
Then press the ON switch and you should see the screens as below.
If everything is o.k. the main screen is now shown.
Please make the external connections like DMX / sound / RS232 / MIDI.
Also do not forget that the earth connections are properly made because of your own safety!
To turn the Supervisor off you have to press the ON button for 3 seconds.
This is to prevent from a accidental switch-off.
Please read the next section and you will have the Supervisor working in a basic manual mode.

Always try to keep a copy of the menu-tree (page 8) nearby, since this will help you as a quick overview to use basic as well as more advanced functions without the manual.

MANUAL OPERATION :

The Supervisor can be used in a automatic as well as a very basic "two preset" mode.
In this mode only the first group of channels can be used.
The masters of A and B are working inverse of each other, which allows an easy cross facility, the grand master controls the total output.
The flash button below the grand master operates as a blackout switch.
This mode can be terminated by pressing the "enter" or "exit" button once.

Example:
Step-1: Turn the Supervisor on and put it on manual by pressing the buttons A+B+M simultaneous.

Step-2: Set the faders for A-B-M to the upper position (the LED's in the flash button for A and M will now burn)

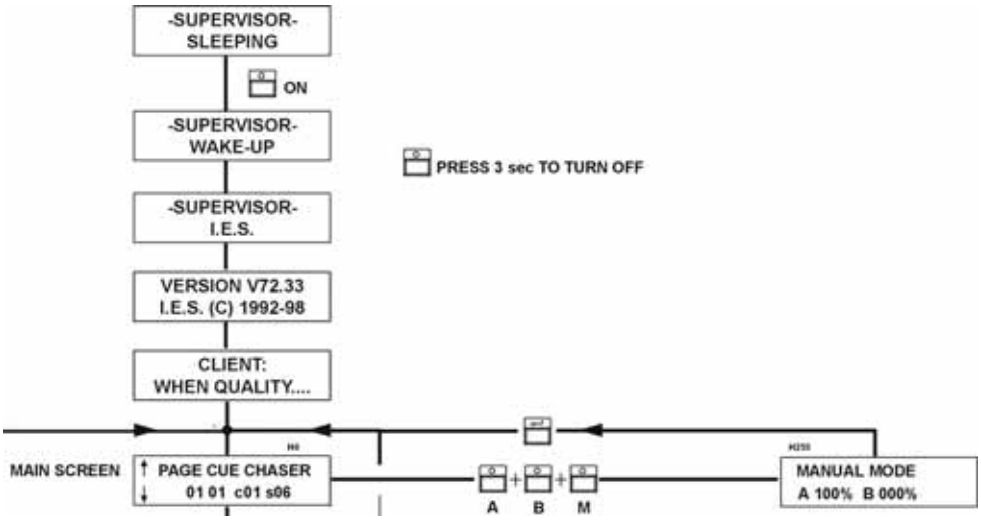
Step-3: Create the desired light setting on preset A.

Step-4: In the mean time you can make the setting on preset B by means of the position of the faders.

Step-5: Slide master fader A and B to the bottom position to make a cross-fade to preset-B.

This way of operation requires that all levels are set for each cue.
In automatic mode the Supervisor of course takes care of this memory function.

It is also possible to control the full number of channels. In order to do so select "manual setup" in the setup function, and select A/B for the two preset mode or A&B for a one preset full channel function.
The sub master A now controls the total level.



PROGRAMMING A CUA. (quick access)

To program a cue press the "prog cue" button. You now have to enter the password, number by number, and confirm it by pressing "enter". If the password is "0000" you will not be asked for a password.

All channels are now sent to the DMX-512 output according to the position of the faders, independent from any master setting.

The screen now shows:

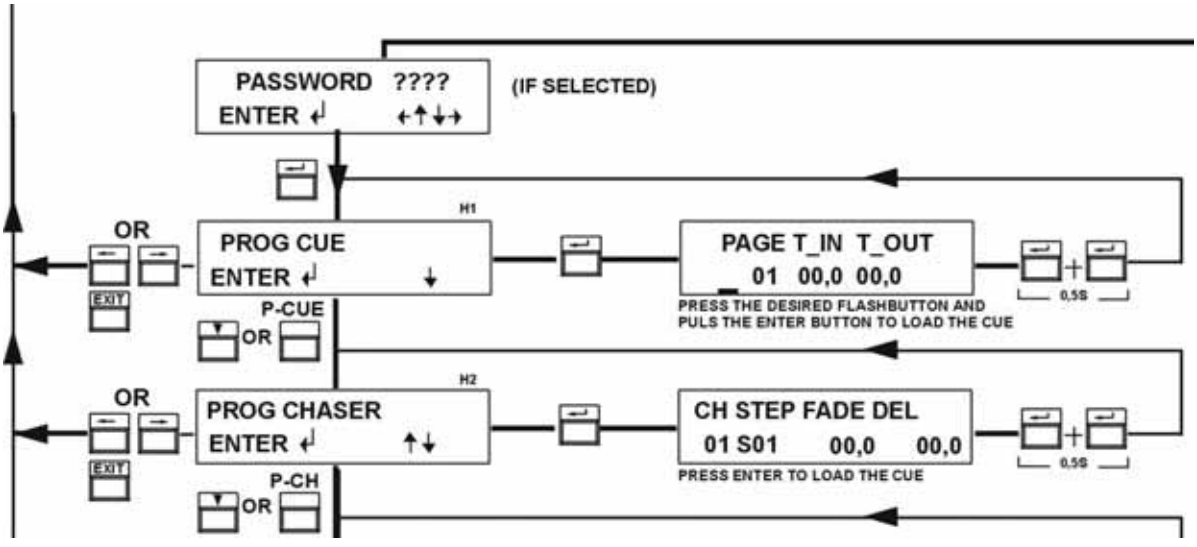
PAGE : a page contains depending of the desk version, 12, 24 or 36 cue's.
Again depending on the version, available are 40/30/20 pages

T_IN : For each cue it is possible to enter a fade-in time between 0 and 99,9 seconds.

T_OUT : This is the fade-out time, and can also be set between 0 and 99,9 seconds.

Step-1 : Press the "prog cue" button.
Step-2 : First select on which page you would like to store one or more cue's.
Step-3 : Set the fade-in/out time to the desired value.
Step-4 : Make the light setting to your liking.
Step-5 : Press the flash button from the cue number where you want to store this setting. (the cue's which are not yet programmed will show a green led), and keep it pressed while you momentarily press "enter".
Step-6 : As a confirmation the matching red led is now illuminated and the green led will go out.

Repeat these actions if you want to store an other cue, if not double click on the "enter" button (within 0,5 sec.) or press "exit". The main screen will reappear and the bottom row of faders (preset-B) will work again as a cue master, instead of a channel fader .
Set master B and M to full and master A on 0%. By sliding up one of the preset B faders the corresponding cue is recalled.
By means of the upper fader row (preset-A) it is still possible to make a setting for the first 12/24/36 channels manually.
The programmed fade in/out time can live be modified using the "**TIME-FADER**".
This gives you the possibility to in-or decrease the programmed time with a maximum factor 6.
If the time fader is not in the neutral position, an arrow appears to indicate the direction of the modification.
Switching on the time button sets all fade times to zero.
The stored cue's can be modified per channel, in the "**modify cue**" mode. (see page 12)
The stored fade times can be edited in the "**edit cue time**" mode. (see page 11)
To program a cue "blind" use the "**prog cue blind**" function in the same way as described above.
The only difference is found in the outputs, since these are frozen at the moment you enter this menu function.



EDITING A CUE TIME :

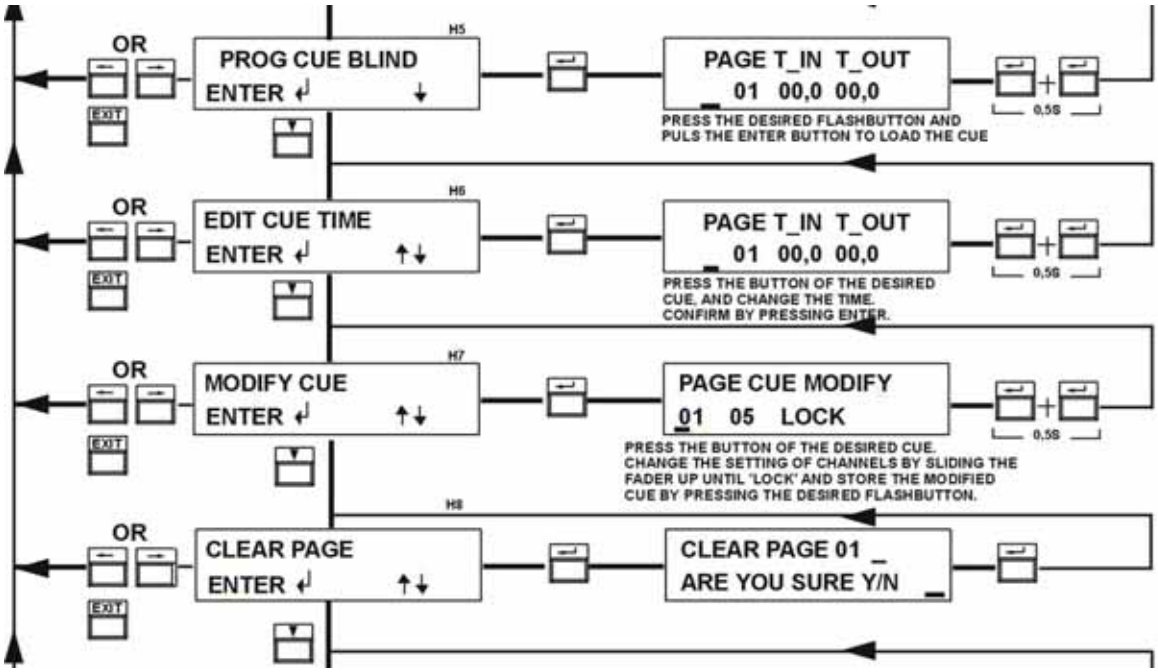
If the fade-in -or out time is not programmed correctly it is possible to change these times in the "edit cue time" menu.
Starting at the main screen, press "enter" and go to the position "prog" and press "enter" again.
You now have to enter a password, number by number and confirm this by pressing "enter".
If the password is "0000" you will not be asked to enter a password.
By means of the "down" button go to the "edit cue time" screen and press "enter".
The display now indicates the present page. If necessary it is possible to select an other page.

To change the programmed times follow the next sequence.

Step-1 : Press the corresponding flash button to select the desired cue.
The matching led is now on, and the programmed times are displayed.

Step-2 : Change the times to the correct settings.

Step-3 : Press "enter" to store these new times if no other cue time has to be modified, or the corresponding flash button to store these times and you would like to change the times from an other cue.



MODIFYING A CUE : (quick access)

Whenever a programmed cue is not completely to your liking, it can be changed using the "modify cue" function. This provides an easy copy and modify facility.
The recalled cue is put in a buffer during modification to make it possible to use a basic light setting, modify and store it on any page and cue.

Starting at the main screen, press "enter" and go to the position "prog" and press "enter" again.
You now have to enter a password, number by number and confirm it by pressing "enter".
If the password is "0000" you will not be asked for a password.
If necessary it is possible to select an other page.

To modify a cue, follow the next procedure.

Step-1 : Press the "MOD CUE" button.

Step-2 : Select the proper page, and make sure that all faders are set to zero or at least below 100%
.

Step-3 : Press the flash button of the desired cue. (this setting is now put into a temporary buffer, and the display shows the recalled cue number and the settings of each channel is displayed on the flash buttons)

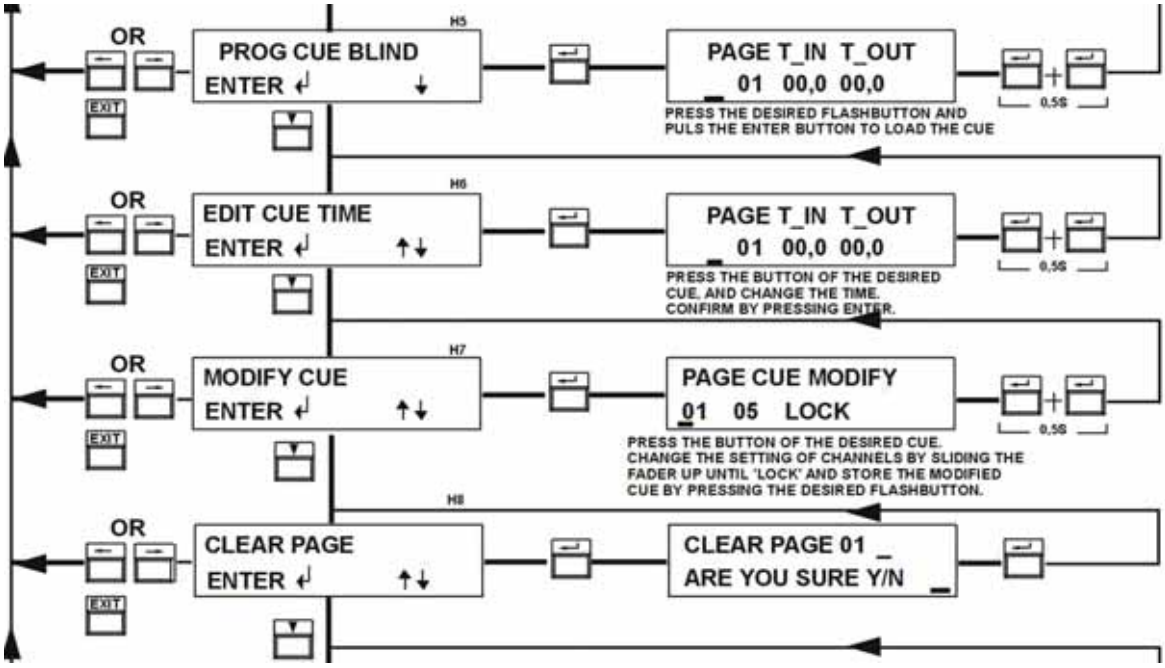
Step-4 : Move the fader of the incorrect channel to 100% (the display confirms this by showing "lock xx").

Step-5 : This channel now responds to its new setting.

Step-6 : When more channels have to be modified repeat step 4

Step-7 : Press the flash button from the location where you want to store the modified cue. This can be the original cue or a new destination.

Step-8 : When finished, leave this function by a double click on the "enter" button or press "exit".



PROGRAMMING A CHASER : (quick access)

To program a chaser, press **PROG CHASER**. You now have to enter a password, number for number, and confirm it by pressing "enter". If the password is"0000" you will not be asked for a password.
All channels are now sent to the DMX-512 according to the position of the faders, independent from any master setting.

The screen now shows:

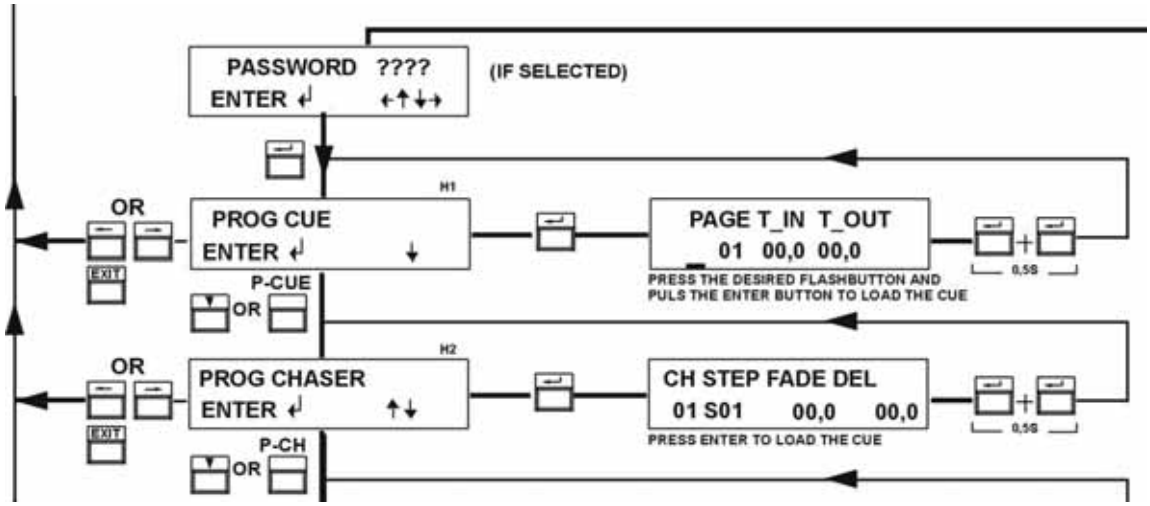
CH XX	:	Shows the selected chaser.
STP Sxx	:	Shows the actual step.
FADE XX.X	:	Shows the programmed step(=fade) time, or "END" position for the final step.
DEL XX,X	:	Shows the programmed pause time.

Step-1 : Press the "PROG CHASER" button.
Step-2 : First select which chaser you wish to program or reprogram.
Step-3 : Put the chaser at step 01.
Step-4 : Make the light setting to your liking.
Step-5 : Put the fade time and delay time on the desired value.
Step-6 : Momentarily press "enter" to store this cue. The step counter is now increased with one step.
Step-7 : Repeat step 4/5/6 until the chaser is finished.
Step-8 : Define the last step as "END" by setting the time below 00,1. End appears, and press "enter".
Step-9 : Leave this menu by means of "EXIT" or double click the enter button.

To recall a chaser, select the desired chaser and turn the chaser on. With "B.P.M." and "TIME" off the step counter is automatically incremented after the step time is finished.
The programmed step time can live be modified by means of the time fader.
This gives you the possibility to in- or decrease the programmed time with a maximum factor 6.
If this fader is not in the neutral position, an arrow appears to indicate the direction of the modification.
Switching on the time button stops the automatic counter. Put the cursor on the "step" field and use the "up" or "down" button to go to the next or previous chaser step. In this way a "GO" button is created.
The time fader still works.

Switching on the "B.P.M." button enables the sound triggering. With the fader on 0 each time there is a beat the next step is activated. With this one set to maximum, 10 beats are needed for the next step.
During programming it is possible to preview a programmed step by pressing the chaser button (the led is flashing).

If the "B.P.M." button is pressed for more then 5 seconds with the chaser "ON" the led will start flashing and the B.P.M. fader has become a cross fader for the chaser cue's.
To program a chaser "blind" use the "PROG CHAS BLIND" function in the same way as described above.
The only difference is found in the outputs, since these are frozen at the moment you enter this menu function.

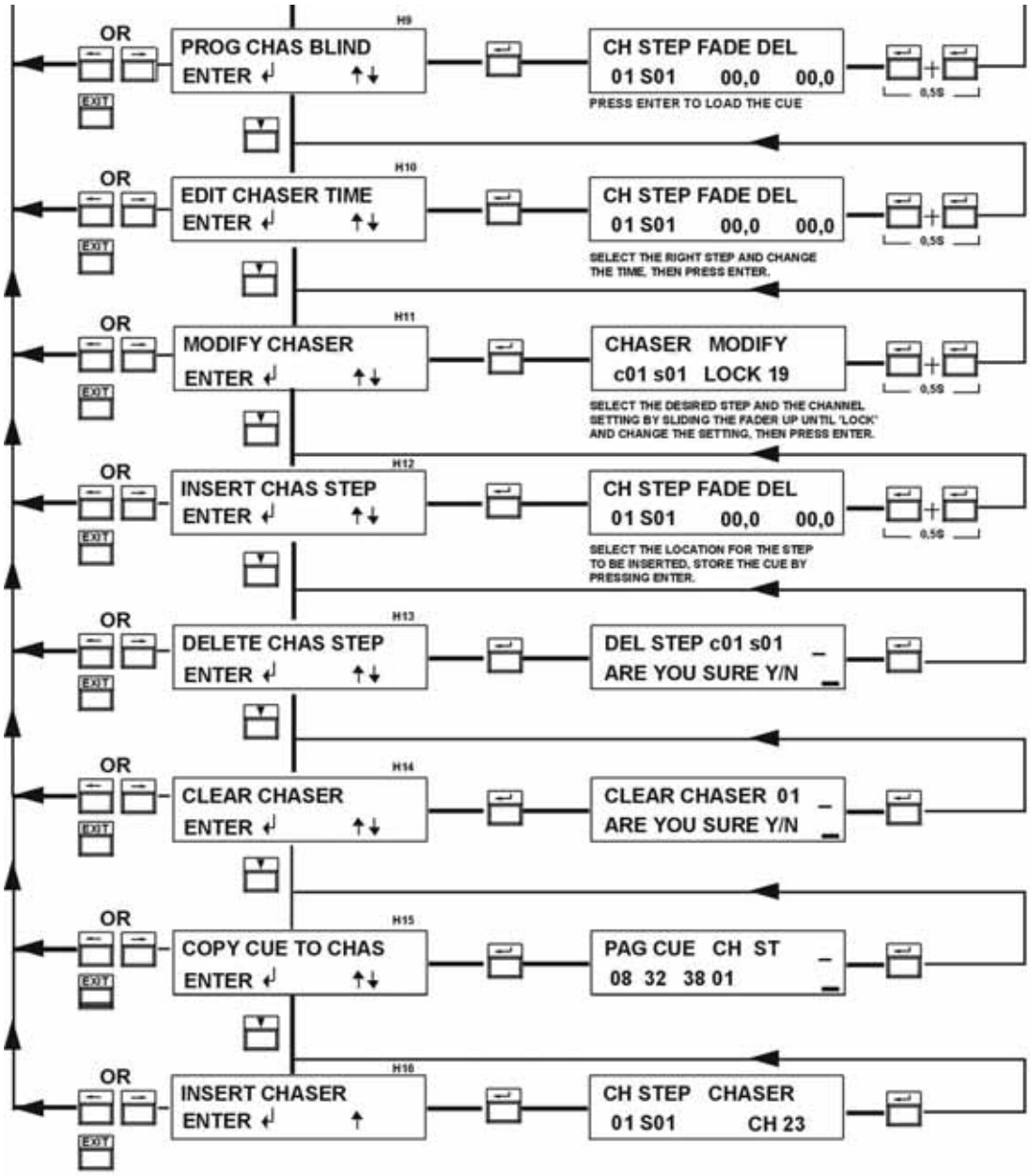


EDITING A CHASER TIME :

The chaser is equipped with a fade time for each step, however it might be necessary to change one or more step times. This is done by means of the "edit chaser time" function.
Starting at the main screen, press "enter" and go to the position "prog" and press enter again.
You now have to enter a password, number by number and confirm it by pressing "enter".
If the password is "0000" you will not be asked for a password.
Go to the "edit chaser time" screen and press enter to select. The screen now shows the selected chaser, actual step and the present time values.

To change the programmed times, follow the next sequence.

Step-1 : Go to the desired step, and change the value of fade and delay time.
Step-2 : Press "enter", after which the time is stored and the step counter goes up.
Step-3 : After having set all times to the proper value, leave this function by pressing "exit".

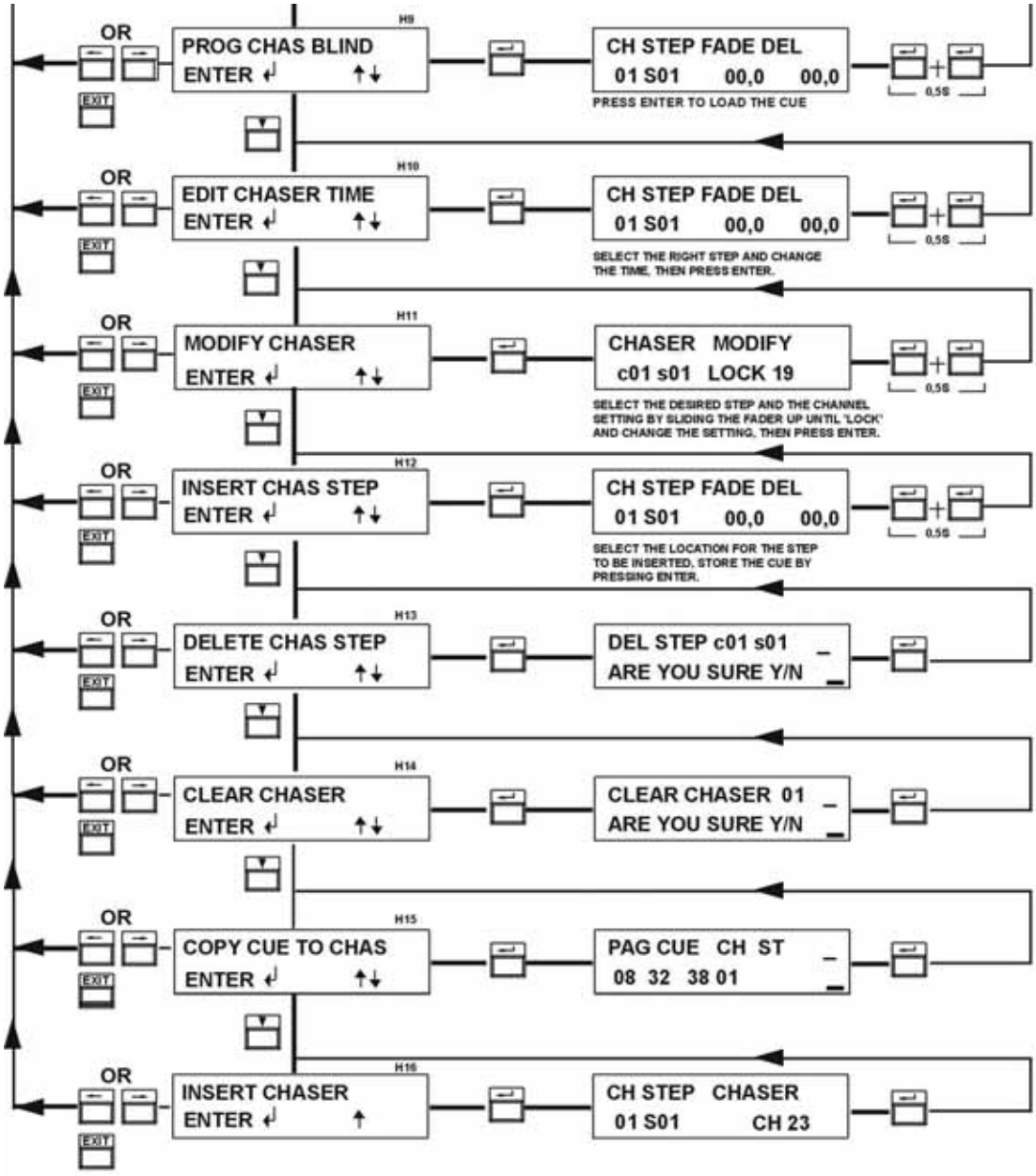


MODIFYING A CHASER STEP : (quick access)

Whenever a programmed chaser step is not completely to your liking, it can be changed using the "modify chaser" function. Press the "modify chaser" button. You now have to enter a password, number by number and confirm it by pressing "enter".
If the password is "0000" you will not be asked for a password. The display now shows the selected chaser and step number.

To modify a step follow the next procedure.

Step-1 : Press the "MOD CHASER" button.
Step-2 : Select the step which has to be modified, and make sure that all faders are set to 0%.
Step-3 : Move the fader of the incorrect channel to 100% (the display confirms this by showing "lock xx")
Step-4 : This channel now responds to its new setting. If necessary also modify other channels.
Step-5 : Press "enter" to store this step into the memory.
Step-6 : If necessary repeat this for other steps, otherwise leave this function by pressing "exit".



INSERT OR DELETE A CHASER STEP :

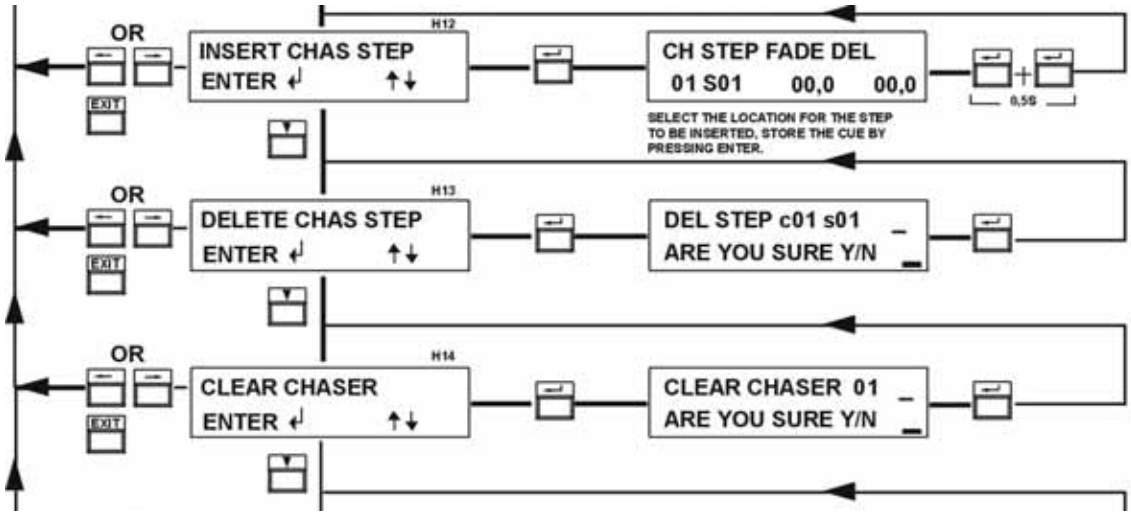
If a chaser is not complete a chaser step can be inserted or deleted by means of these functions.

Insert:

Step-1 : Select the "INSERT CHAS STEP" menu and press enter.
Step-2 : Select the desired chaser and chaser step. (the new step is inserted before the indicated step)
Step-3 : Select the right fade and pause time.
Step-4 : Prepare the desired light setting and press enter to store this cue.
Step-5 : Repeat step 2-4 if necessary or leave this function by pressing "exit" or a double click on "enter"

Delete:

Step-1 : Select the "DELETE CHAS STEP" menu and press enter.
Step-2 : Select the chaser and chaser step you wish to delete.
Step-3 : Change the cursor to the position "Y" if you are shore and press enter.
Step-4 : Repeat step 1-3 if you want to delete more steps, otherwise leave this menu by pressing "exit".



CLEAR CHASER :

It is also possible to clear a complete chaser if you want to use this for an other purpose.

Step-1 : Select the "CLEAR CHASER" menu and press enter to select.
Step-2 : Select the chaser you wish to delete
Step-3 : Change the cursor position to "Y" if you are shore and press "enter".
Step-4 : If you are finished leave this menu by means of "exit"

COPY CUE TO CHASER :

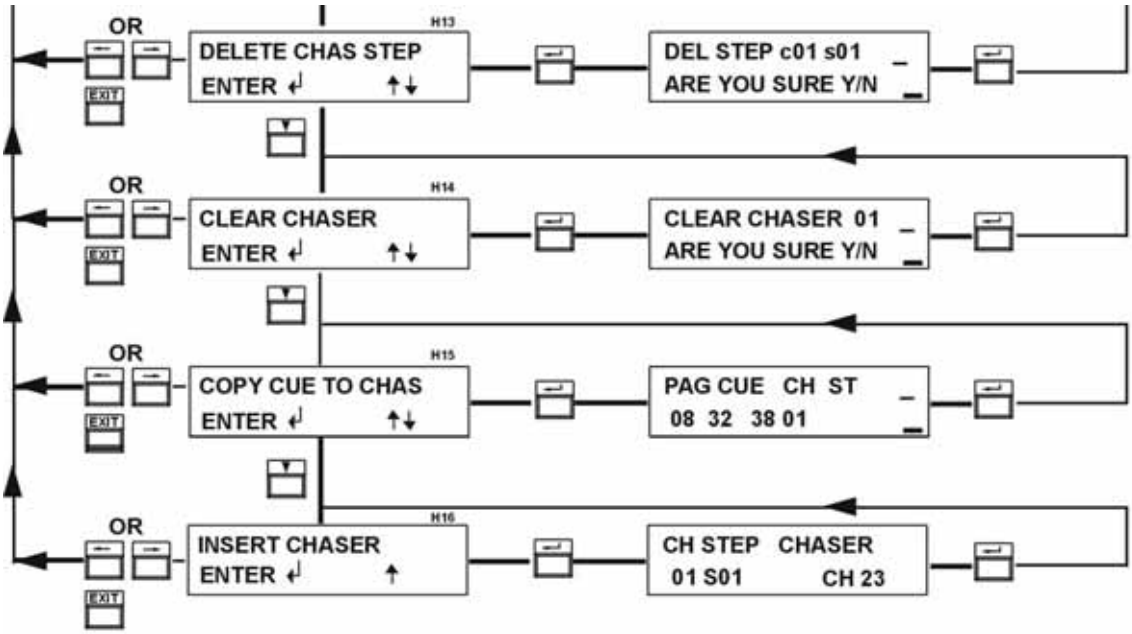
To save double work it is possible to insert an programmed cue into a chaser step by means of this function.
The fade and delay time are set to zero and have to be entered with the "edit cue time" menu function.
The old data of this chaser step is over written.

Step-1 : Select the "COPY CUE TO CHAS" menu.
Step-2 : Select the cue which has to be copied to a chaser.
Step-3 : Select the destination chaser and chaser step.
Step-4 : Check these values once more and confirm with enter.
If you want to cancel press "exit".

INSERT CHASER INTO A CHASER :

An additional powerful function is the possibility to insert a complete chaser into an other chaser.
This means that at the moment this step is reached in the primary chaser the second chaser is completed, and then it continuous with the next step of the primary chaser.
Warning: Beware not to nest chasers.

Step-1 : Select the "INSERT CHASER" menu.
Step-2 : Select the chaser and chaser step where the secondary chaser has to be inserted.
Step-3 : Select the chaser which has to be inserted.
Step-4 : Check these values once more and confirm with "enter". The display now shows an arrow to confirm this insertion. It is possible to delete this link by pressing "enter" once more.
If you want to cancel press "exit".



SETUP CUE OR CHASER :

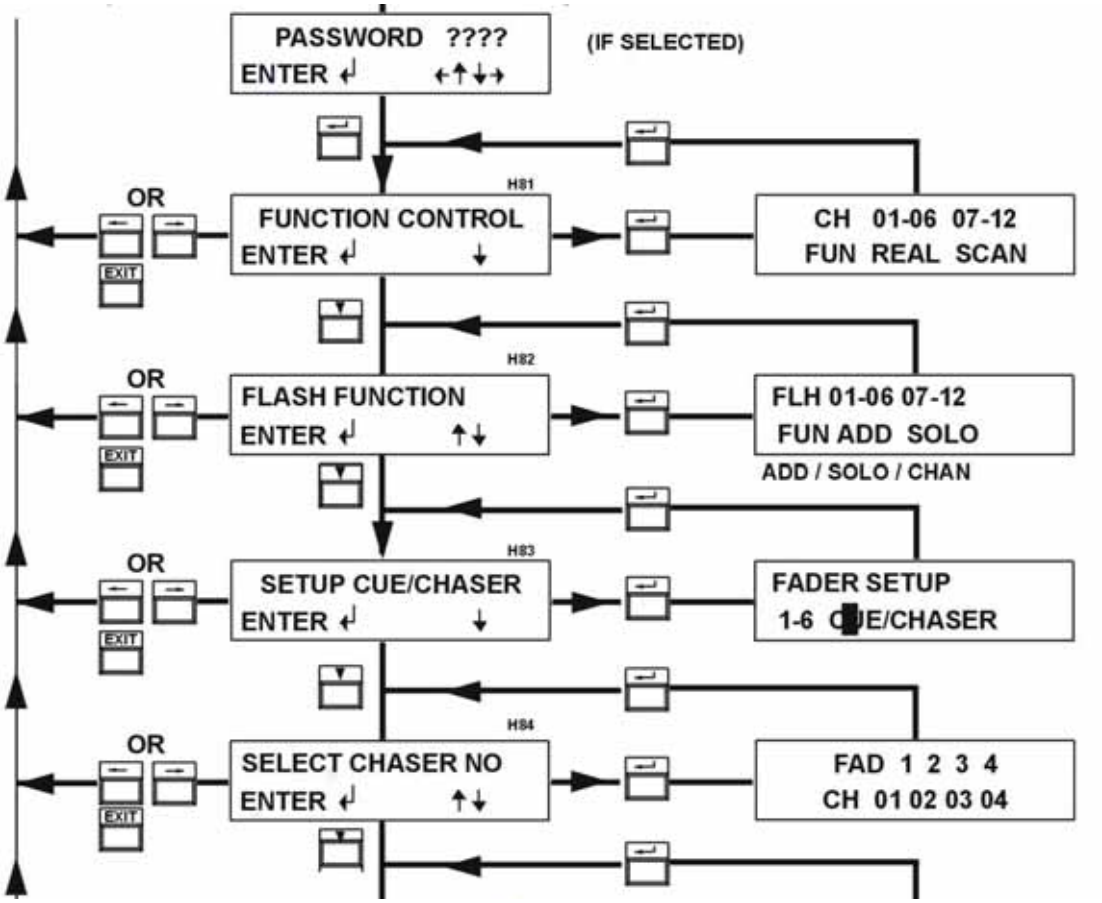
A special function of the Supervisor is the capability to run multiple chasers at the same time.
For this purpose the first 6 sub masters are reserved.
With this function it is even possible to run the same chaser started at different points.

Step-1 : Select the "SETUP CUE/CHASER" menu.
Step-2 : Move the cursor to "CUE" if you want the first 6 sub masters respond as cue master, or "CHASER" if each sub master has to control a chaser.
Step-3 : Confirm this choice by pressing "enter".

SELECT CHASER NUMBER :

If you have selected "CHASER" it is necessary to assign a chaser to each individual sub master.

Step-1 : Select the "SELECT CHASER NO" menu.
Step-2 : Move the cursor to the first sub master number and by means of up and down which chaser it has to control.
Step-3 : Leave this menu by pressing "enter".



ENTERING AND CLEARING A PATCH : (quick access)

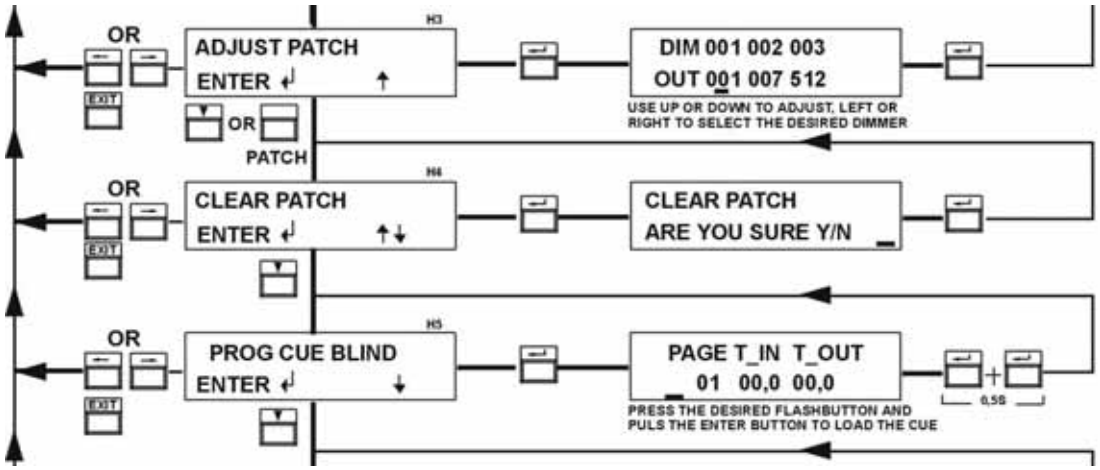
The SUPERVISOR transmits the data of the available channels routed over 96/256/512 DMX channels.
The default route is all channels routed behind each other.
This means channel 1-25-49-73 are routed to desk channel number 1 for a supervisor 24.

It might be very useful to select an other combination to combine for instance the same colours or different scanner functions. To enter a different patch, go from the main screen by means of the "enter" button to "prog" and press "enter" again.
You now have to enter a password, number by number and confirm it by pressing "enter".
If the password is "0000" you will not be prompted for this.
Go to the "adjust patch" screen and select it by pressing "enter".
Or simply press the "PATCH" button.

The screen now shows:

DIM : This means the dimmer or DMX address , followed by the next three DMX channels.
OUT : This is the desk-channel number. By changing this number you assign the DMX address to a desk-channel. It can also be set to ON for continuous on, or to "---" to be disregarded (for example a scanner which has started to lead an independent live).

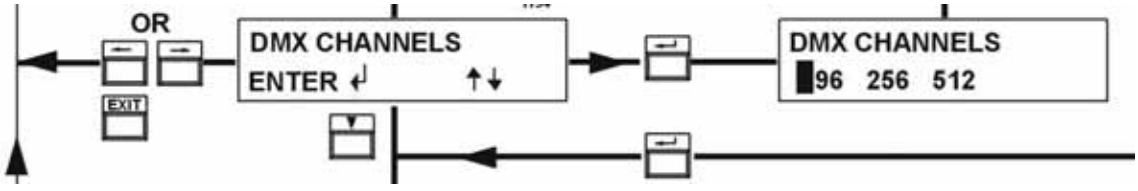
To make it easy to go back to the original patch select "clear patch" , and confirm clearing by selecting "Y" and then "enter".



SELECTION OF DMX OUTPUT CHANNELS :

Depending on the requirements it is possible to select 96 / 256 / 512 DMX channels.
The patch limitation is also automatically adjusted to this selection.

Remark : beware that also the update rate for the individual channels is dramatically reduced by the Increase of DMX channels.



FUNCTION CONTROL :

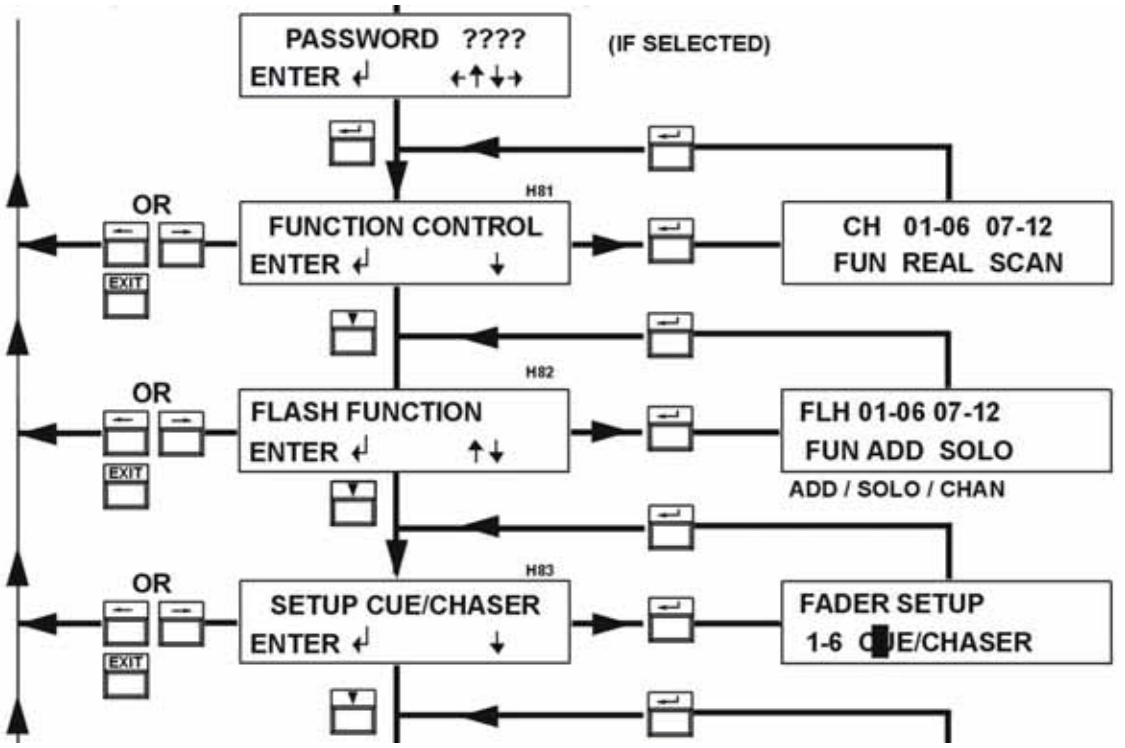
Your SUPERVISOR is not only designed to be used with standard lights but also to work together with scanners or colour changers as well as switch functions.
Without the "scan" function it would mean that while making a cue cross all positions/gobos/colors etc. will be passed, instead of a instantaneous transition from one position to an other.
This possibility can be selected for each group of six channels to allow a flexible combination.
The main screen will show the cue number or chaser from whom the values are sent to the "scan" programmed channels. It is recommended when using scanners to combine functions like speed and focus to limit the necessary number of channels, functions like shutter and dimmer are best controlled as a standard light to allow a smooth cue crossing.

To select the desired function go via the "setup" part of the menu tree to the screen "function control" and press "enter".

The screen now shows:

CH : On this line the group of channels is displayed. By moving the cursor left or right different groups can be selected.
FUN : This stands for "function" and can be changed from "real" to "scan" by means of the up and down button.

To return to the main part of the setup tree press "enter", to return to the main screen press in this position the "left" or "right" button. Or return to the main screen by pressing "exit".



TOP AND BOTTOM SET :

In several applications it might be useful to adjust the overall maximum or minimum setting,
for instance if your running on a generator with an underrated power or working in the U.K..
with a supply voltage of 240V while your lamps are 220V. These adjustments do not influence the settings for the "scan" selected channels.

To set the *maximum* output, go via the "setup" part of the menu tree to the screen "top set" and press "enter" to select.

The screen now shows:

MAX OUTPUT 100% : By means of "up" and "down" a new value can be set.
Return to the tree by pressing "enter".

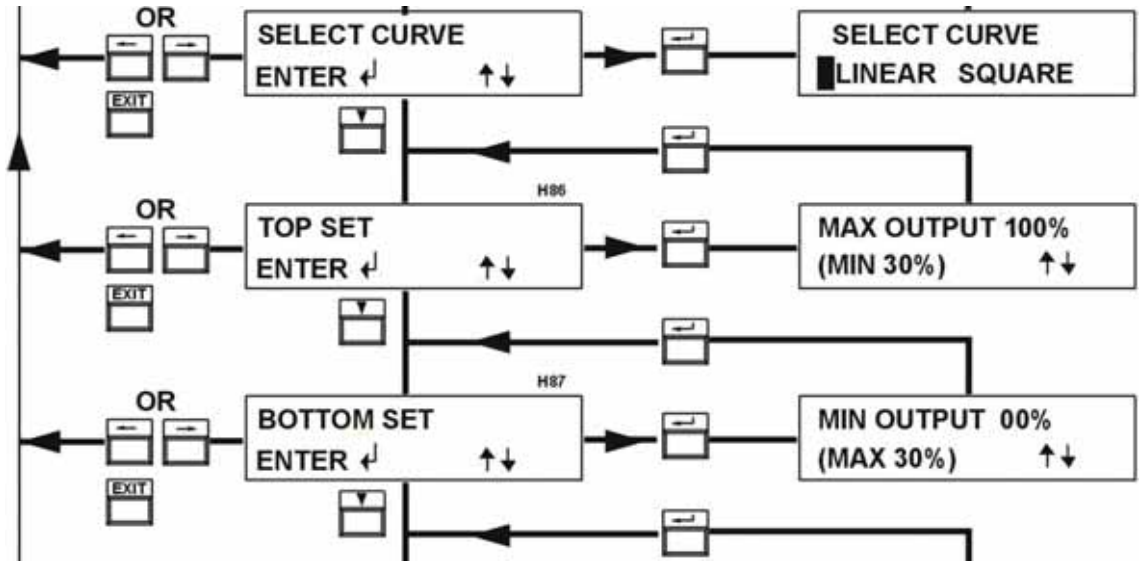
Return to the main screen by pressing "exit".

The *minimum* can be adjusted with the function "bottom set".

The screen now shows:

MIN. OUTPUT 00% : By means op "up" and "down" a new value can be set.
Return to the tree by pressing "enter".

Return to the main screen by pressing "exit".



TEST FUNCTIONS :

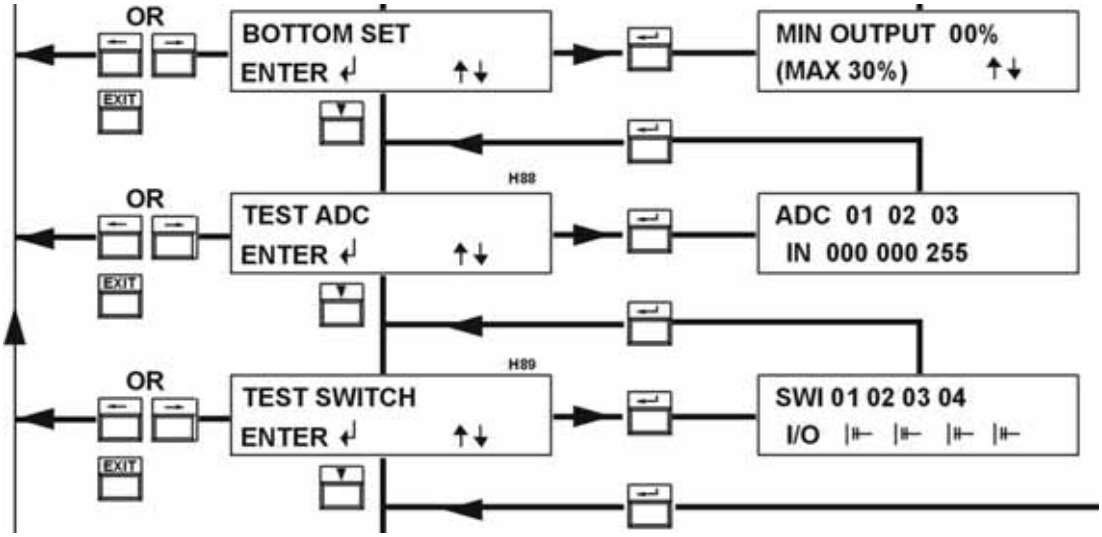
To provide a easy check of all controls a test function is available for the faders and the switches.

Faders are tested with the "test ADC" function.

By moving the cursor left or right the desired channel can be selected.
If the fader moves from 0 to 100% the ADC (Analog Digital Converter) should go from 0-255.

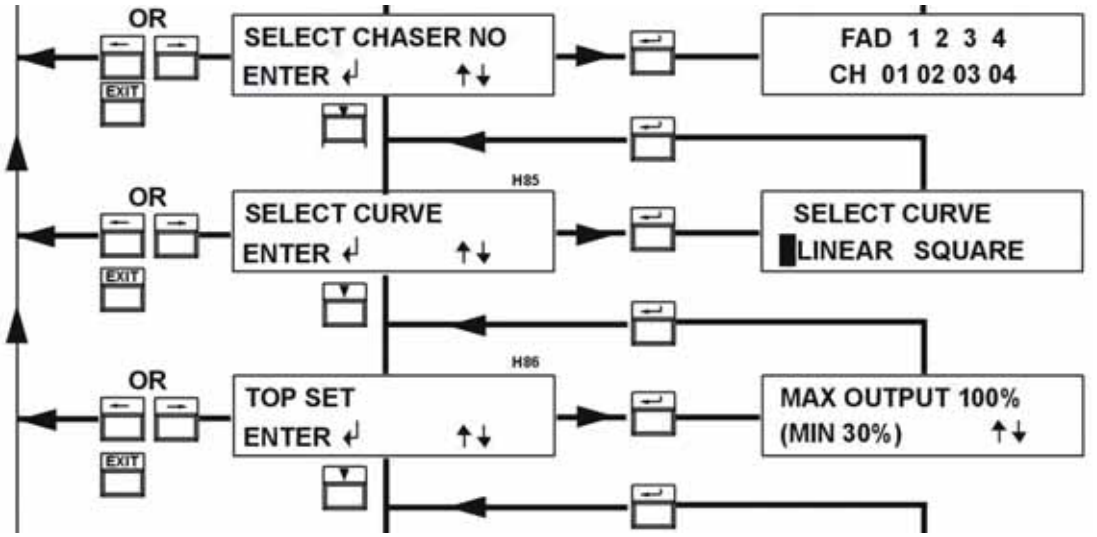
Switches are tested with the "test switch" function.

The desired channel is selected in the same way as the faders.



CURVE SELECTION :

It is possible by means of the "SELECT CURVE" menu to choose a square curve instead of the standard linear curve. This is only useful if this is not possible on the dimmers itself.



FLASH FUNCTIONS :

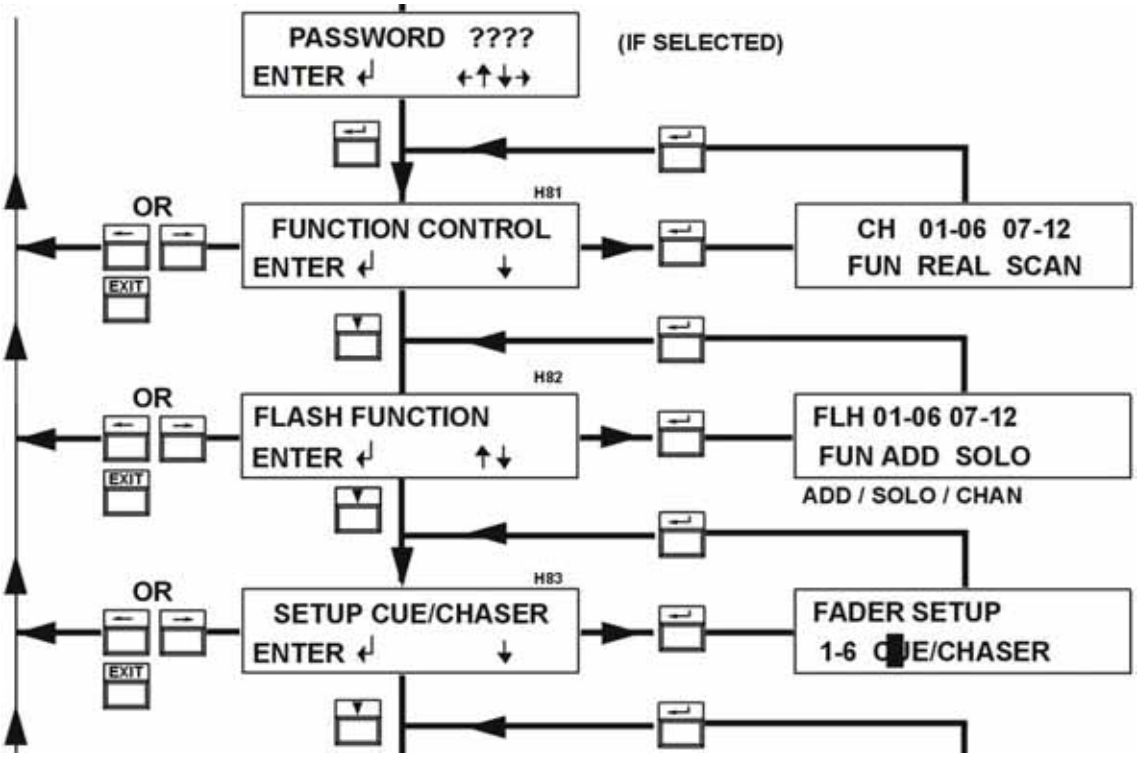
The flash buttons beneath the sub masters can be selected per block of 6 buttons to operate in three different modes. The default setting is "ADD".

The three possible modes are:

ADD This means that the stored cue is recalled and added to the present light setting. The fade time is still valid when the button is pressed.

SOLO In this mode only this cue is recalled when pressed, without any fade time, and all other cues and chasers are killed. This mode is intended to highlight a spot on the stage with a high contrast

CHAN The flash button now works as a single channel flash.



FADER CALIBRATION :

This function is purely available for technicians and not for normal use. It allows the service engineer to ensure that the fader position at "0%" the processor really reads 0% and with the fader at "100%" it reads full scale being value 255.

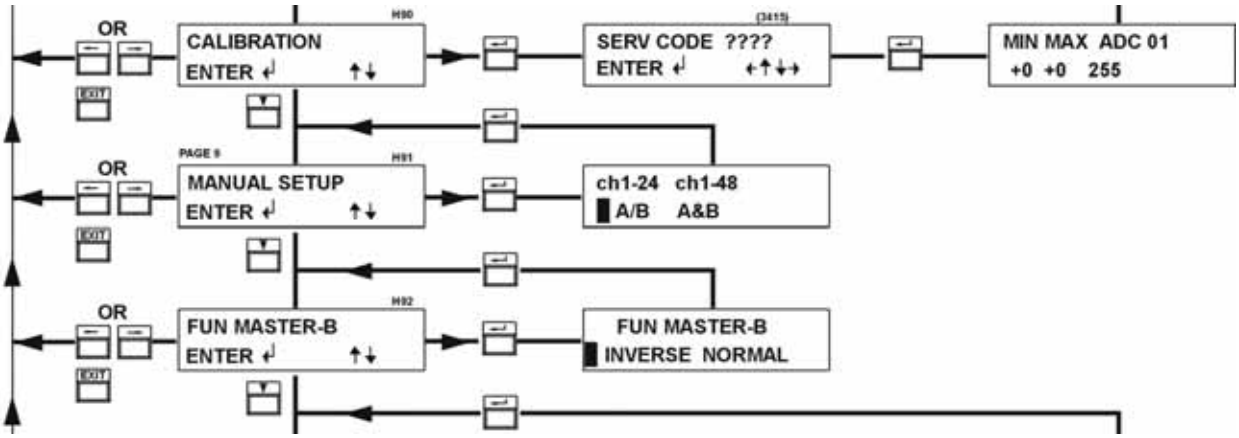
To adjust and check the calibration proceed as follows:

Step-1 : Select menu "calibration" press "enter" enter the service code 3415 and press "enter" again.

Step-2 : Slide the fader of the indicated ADC channel to "0" and check if the reading is also "0". if not put the cursor to the position "MIN" and use the "UP" and "DOWN" keys to adjust to zero.

Step-3 : Now slide the fader to 100% and check if it shows 255. If not move the cursor to the position "MAX" and use "UP" and "DOWN" again to adjust the reading to 255.

Step-4 : Leave this menu function by pressing "enter" and return to the setup root.
To return to the main screen press "EXIT".



SERIAL CONNECTION TO A PERSONAL COMPUTER :

Standard with the SUPERVISOR comes a very powerful software package hat runs under windows 95 it allows you to monitor the actual status of the 96 outgoing channels, second readout of the LCD display, possibilities to enter name tags to cue's and chasers, an overview of the sub masters,
it follows what you are doing on the supervisor and assist you with a help function in multiple languages.
As well as the up and down loading of user and system software.

System requirements for the monitor software: IBM compatible PC 486/66 Mhz with 8 Mb RAM,
16 colors at 800x600 pixels, Windows 95.

Procedure to install the software and Supervisor settings:

Step-1 : Select the "SERIAL" menu press "enter" and enter the service code,
confirming it by pressing enter

Step-2 : Move the cursor to the position "MON" by means of the left and right button.
"NC" means not connected, and "PC" is used together with the full edit software.

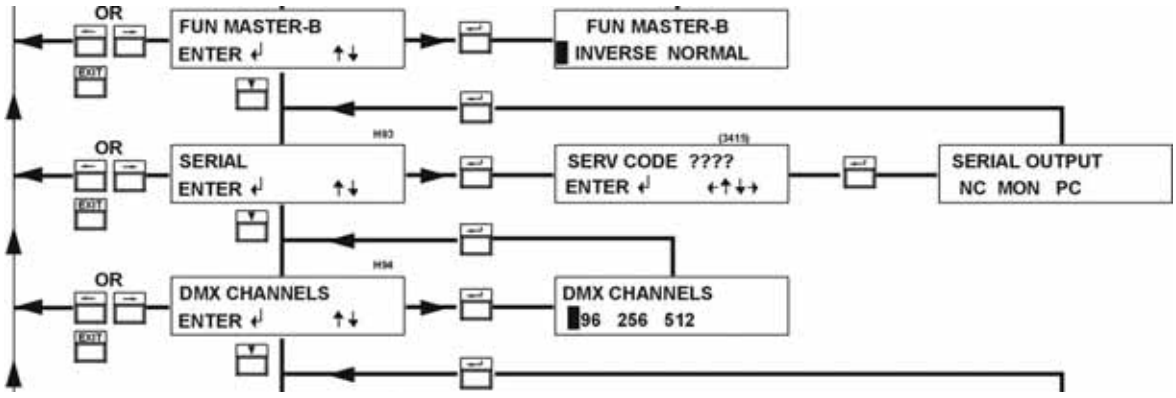
Step-3 : Leave the menu by pressing "EXIT".

Step-4 : Connect the provided 9-pole cable to the Supervisor and a free COM port of the PC

Step-5 : Insert the floppy in drive A or B and start Windows. Start the setup program.

Step-6 : Follow the instructions and do not forget to specify the right COM port and to enter a "user name"
(after downloading a program this will appear in the LCD screen during start up).

Step-7 : If the installation was successful the actual status of the Supervisor is displayed.



MIDI out/input configuration :

For maximum flexibility the Supervisor desks are provided with an midi-input and midi-output.
At first it is necessary to decide if the supervisor is going to be a master controller or has to perform as a slave (for example a perfect way to synchronize a show with multiple controllers).

To make this selection go to MIDI screen in the setup tree, and pres enter to confirm your selection.
The possibilities are:

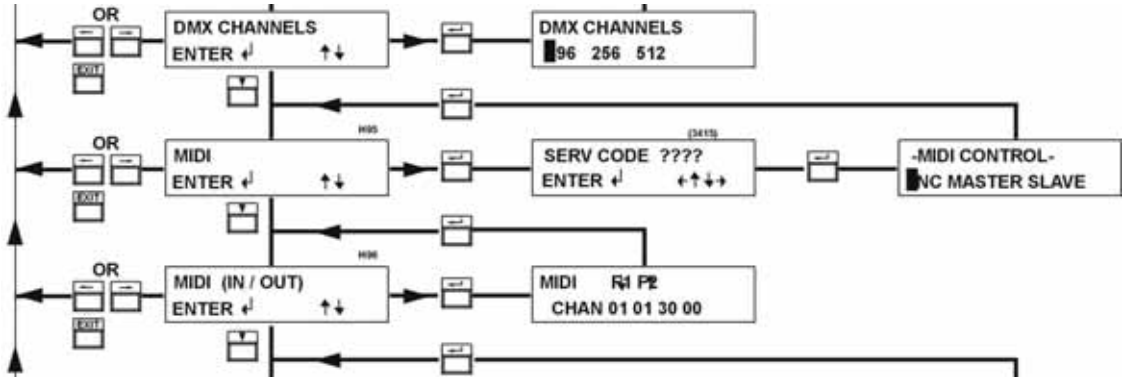
N.C. MIDI control is now disabled

MASTER The supervisor now generates a MIDI output for a selectable

MIDI channel and start key for both the flash buttons as the function buttons.
If a sub master goes up the MIDI key velocity is changed from value 00-127

SLAVE The supervisor checks the MIDI input for the right MIDI channel and routes the keys to the right flash buttons and function keys. In this mode the intensity is controlled with the “velocity”.

Choose the desired possibility by moving the solid cursor to this position by means of the left and right button and press the enter button to confirm.



MIDI address settings :

After the right mode is selected it is still necessary to tell the Supervisor to which MIDI channel and which key is assigned to which flash button or function button. This is achieved as follows:

> 01 The first 2 digits determine the channel number to whom the supervisor responds in slave mode.

< 01 This is the channel number which is added to the key number.

F1 53 This number here is the key that corresponds with the first flash button (Supervisor 24=12 key's, Supervisor 48=24 key's, Supervisor 72=36 key's). If the cursor is moved to the position of F1 you only have to press the MIDI key to enter the key number.

F2 41 For the function it is possible to select a different start number, so you can decide to use these functions or not. If the cursor is moved to the position of F2 again you only have to press the MIDI key to enter the key number.

Sequential assignment of the function key's

F2+01 chaser on
F2+02 chaser off
F2+03 flash master A
F2+04 flash master B
F2+05 black out
F2+06 chaser up
F2+07 chaser down
F2+08 step up
F2+09 step down
F2+10 page up
F2+11 page down

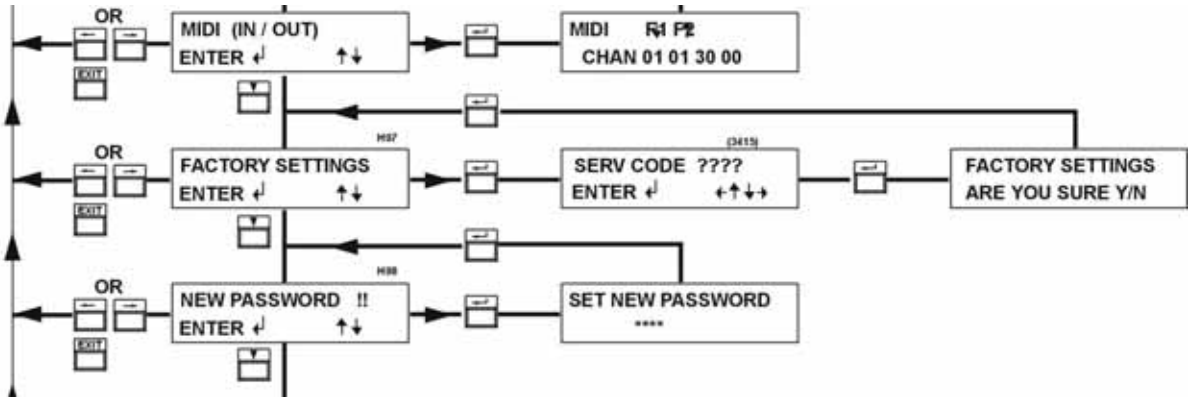
RETURN TO FACTORY SETTINGS :

It might be desirable to have a quick solution to clear the memory of the desk and return to the default factory settings. Before you clear the desk keep in mind that there is no way back after confirming this.
So better make a back up with the monitor software first.

Step-1 : Select "FACTORY SETTINGS"
Step-2 : Enter the service code and press "enter"
Step-3 : If you are really sure move the cursor to the position "Y" by means of the left button.
Step-4 : If you are really really sure press "enter", otherwise press "exit".

An alternative way to clear the memory is to open the front panel and switch on DIP switch number 4.
Now aplly power to the supervisor and push "ON". The screen will now show "DIP 4 OFF".
Return DIPswitch four to the position "OFF" and the display indicates "ALL CLEAN , run setup".
The desk now has initialized the memory and is returned to factory settings.

WARNING: This should only be done by qualified technicians. Beware not to touch high voltage parts.

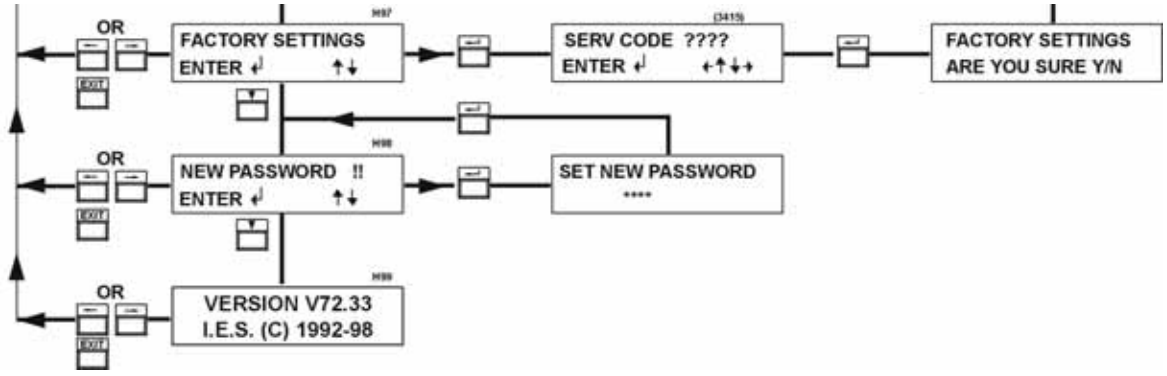


PASSWORD FUNCTIONS :

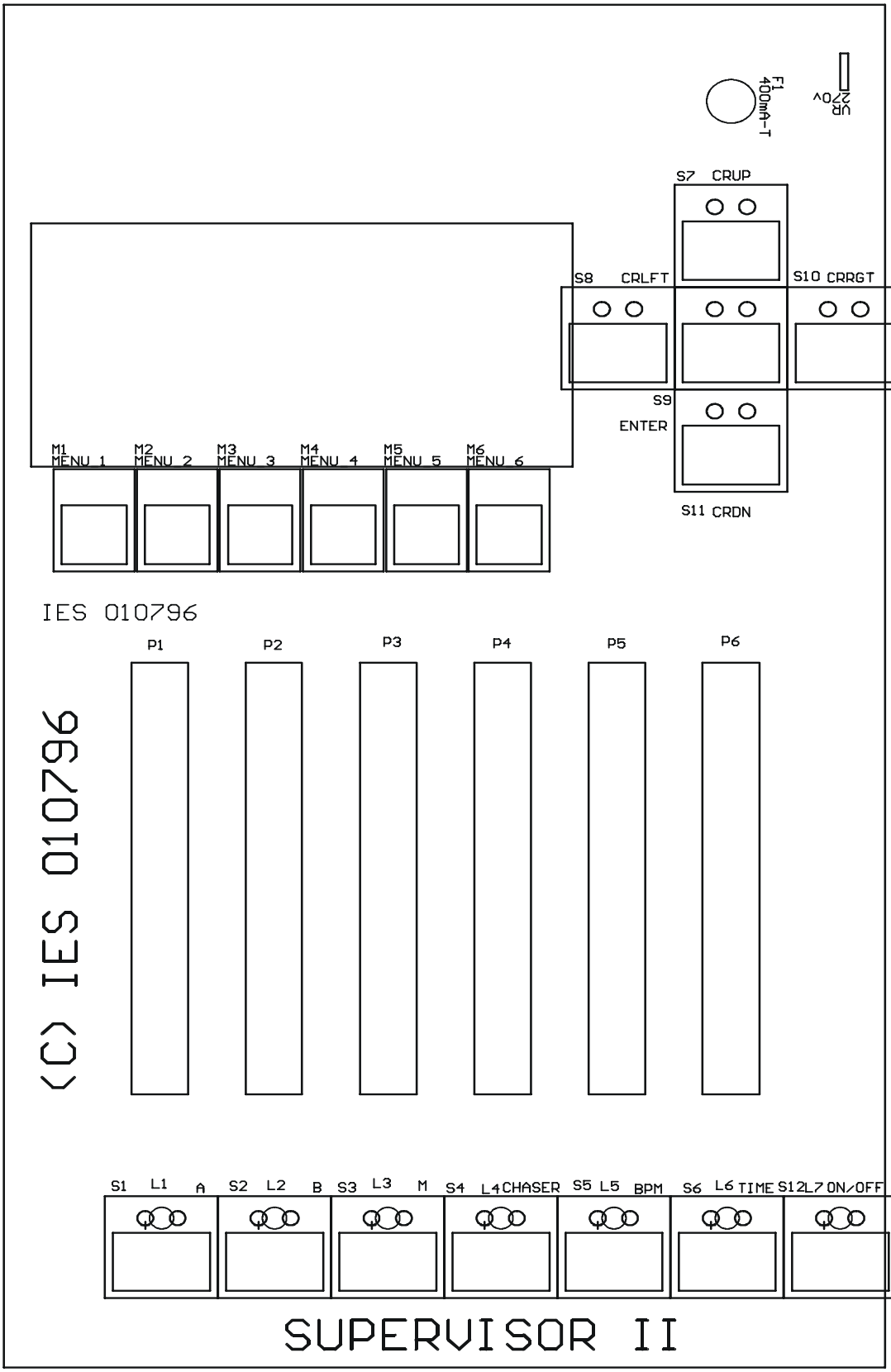
The Supervisor provides the possibility to protect the setup and program functions from unauthorized use.
The technical password is set to 3415 and can not be changed.

The user password can freely be set to any four-digit code with the "NEW PASSWORD" function.
If the password is"0000" it means you will not be asked for a password. Changing it to any other value,
it is active after 5 minutes or switching off/on the Supervisor.
This means that if you want to enter the setup or program menu the four-digit code has to be entered.

After leaving the menu both the menus are not locked for the next 5 minutes to allow a easy
and quick access to the menu.

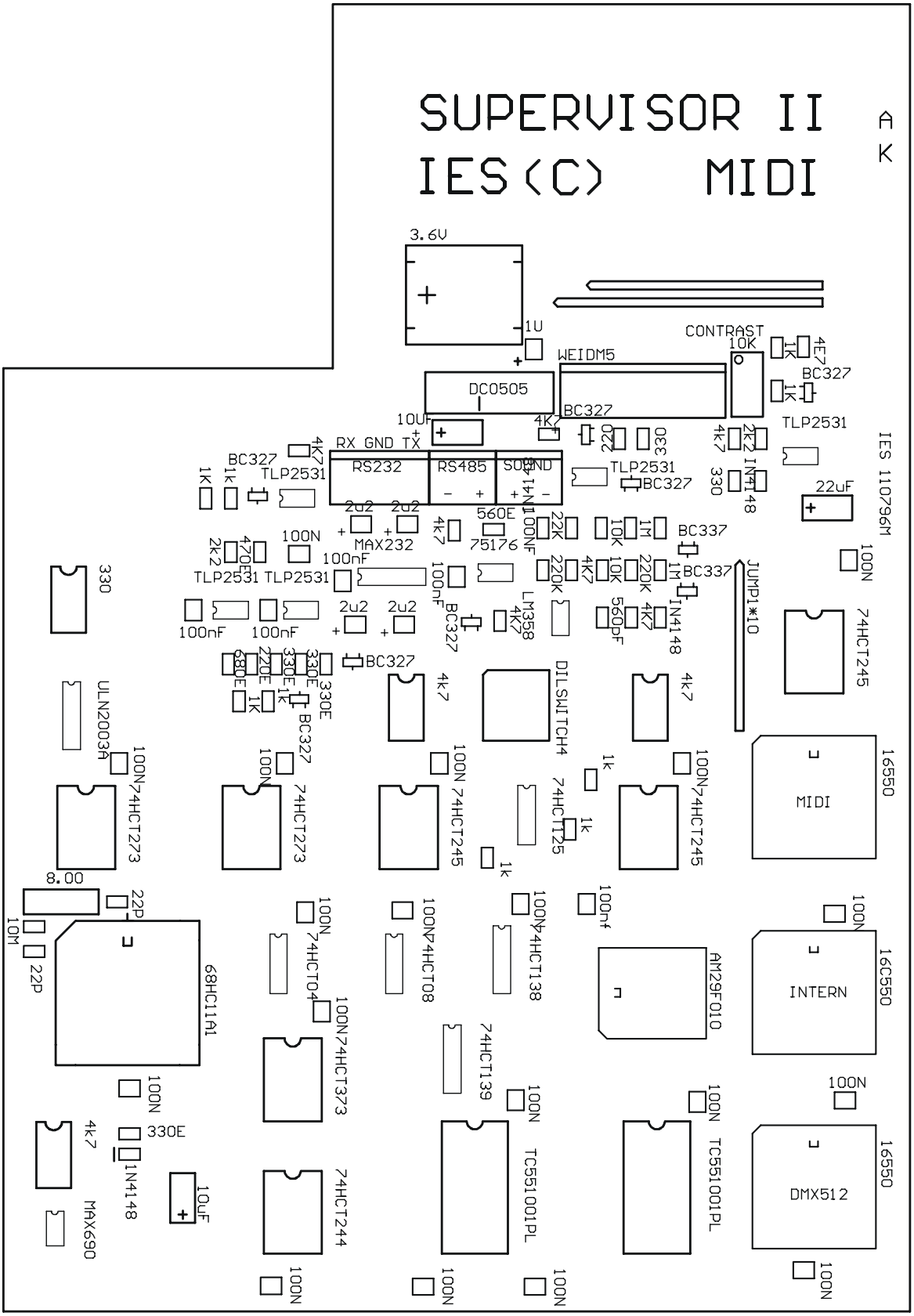


DISPLAY BOARD :



Supervisor display board top overlay

PROCESSOR BOARD :



FADER BOARD :

10K P6A
10K P5A
10K P4A
10K P3A
10K P2A
10K P1A
IES BV 921207A
10K P6B
10K P5B
10K P4B
10K P3B
10K P2B
10K P1B
L6B
L6A
L5B
L5A
L4B
L4A
L3B
L3A
L2B
L2A
L1B
L1A
S6
S5
S4
S3
S2
S1

UPDATING SYSTEM SOFTWARE :

Because of the flexible setup of the Supervisor and the input-device it is possible in a very simple way to add or modify functions or text. This means that new ideas are always very welcome, so your Supervisor can become even more powerful in this way, and is never outdated.
The present software version is shown during start-up in the third screen.
This is also shown on the front page of this manual. In the event that a problem might arise it is essential to check this number.

To up-date your Supervisor it is necessary to update the software by means of the included software package, and erase the memory.

Therefore follow the next procedure, before starting this procedure make sure the monitor software runs without any problems). The Supervisor should be on.:

Step-1 : Select the program function and the select "transmit to Supervisor" and "transmit systemprog hot".

Step-2 : Now select the latest software version for the right desk named sXX_vYY.cod and press "OK".

Step-3 : Confirm the update by pressing "START".

Step-4 : During the update the display shows "update system program".
After the update the supervisor goes into sleep mode.

Step-5 : Now turn on the desk and clear the memory by means of "return to factory settings".

If the above-mentioned procedure does not work, the following alternative procedure can be followed.

Warning: these steps should only be done by experienced technicians.

Step-1 : Make sure that the power cord is not connected.

Step-2 : Remove the three screws on both sides to remove the front panel.

Step-3 : Switch on DIPswitch 1.

Step-4 : Select the program function and then select "transmit to Supervisor" and "transmit Systemprog cold".

Step-5 : Now choose the latest software version for the right desk named sXX_vYY.cod and press "OK".

Step-6 : The display now asks if DIPswitch 1 is on.

Step-7 : Make sure that no mains parts can be touched, and apply the mains. Then press "START".

Step-8 : The Supervisor channel led' s are on and if all went well the PC indicates "GOOD LUCK" and the "Time" and "on" led are on.

Step-9 : Turn off the power and switch back dipswitch 1.

Step 10 : Return the mounting screws back in the original position and you are finished.

Good luck.

Remark:

Before starting this procedure make sure that all essential data is retrieved and stored into the P.C. so after changing the system software the data easily can be downloaded into the SUPERVISOR.

I.E.S. B.V.

DECLARATION OF CONFORMITY

According to ISO / IEC Guide 22

Manufacturer's name: I.E.S. B.V.
Manufacturer's address: Wageningselaan 52-54
3903 LA Veenendaal
Netherlands

Declares that the product:

Product name: **Supervisor**
Model number: **24 \ 48 \ 72**

Conforms to the following product Specifications:

Emission	EN 50081-1 / EN 50081-2	
	EN 55011	
	EN 55014	
Immunity	EN 50082-1 / EN 50082-2	
	EN 55024-2	6 kV Contact discharge
		8 kV Air discharge
	EN 55024-3	3 V / m
	EN 55024-4	1 kV Signal lines
		2 kV Power lines

Supplementary information: The product complies with the EMC Directive 89/336/EEC.

Veenendaal
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J.H.D. de Jonge
Technical Manager